



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/529,043

Source: 1652

Date Processed by STIC: 6-12-01

RECEIVED

JUL 09 2001

TECH CENTER 1600/2900

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

#7
 1652

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/529,043

DATE: 06/12/2001
 TIME: 12:27:43

Does Not Comply
 Corrected Diskette Needed

Input Set : A:\Lestxt-1
 Output Set: N:\CRF3\06122001\I529043.raw

SEQUENCE LISTING

4 (1) GENERAL INFORMATION:
 E--> 6 (i) APPLICANT:
 13 (ii) TITLE OF INVENTION: METHOD FOR MICROBIAL PRODUCTION OF AMINO ACIDS
 14 OF THE ASPARTATE AND/OR GLUTAMATE FAMILY
 E--> 16 (iii) NUMBER OF SEQUENCES: 2
 E--> 0 (iv) CORRESPONDENCE ADDRESS:
 9 (C) CITY: Juelich
 10 (E) COUNTRY: GERMANY
 C--> 11 (F) ZIP: 52425
 C--> 18 (v) COMPUTER READABLE FORM:
 19 (A) MEDIUM TYPE: Floppy disk
 20 (B) COMPUTER: IBM PC compatible
 21 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 22 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPA)
 C--> 0 (vi) CURRENT APPLICATION DATA:
 C--> 0 (A) APPLICATION NUMBER: US/09/529,043
 C--> 0 (B) FILING DATE: 03-Apr-2000
 C--> 0 (viii) ATTORNEY/AGENT INFORMATION:
 7 (A) NAME: Forschungszentrum Juelich GmbH
 8 (B) ADDRESS: Postfach 1913

EPO format
 not valid with
 U.S. applications.
 See p. 5

ERRORED SEQUENCES

E--> 25 (2) SEQ ID NO: 1: → Incorrect format.
 E--> 0 (2) INFORMATION FOR SEQ ID NO: 1: → Correct format
 27 (i) SEQUENCE CHARACTERISTICS:
 28 (A) LENGTH: 3728 Base Pairs
 C--> 29 (B) TYPE: Nucleotide
 C--> 30 (C) STRANDEDNESS: Single strand
 31 (D) TOPOLOGY: linear
 C--> 33 (ii) MOLECULE TYPE: Genomic DNA
 0 (D) DEVELOPMENTAL STAGE: 1:
 E--> 38 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1: → Correct format.
 40 CGCAACCGTG CTTGAAGTCG TGCAGGTCAG GGGAGTGTTG CCCGAAAACA TTGAGAGGAA 60
 42 AACAAAAACC GATGTTTGAT TGGGGGAATC GGGGGTTACG ATACTAGGAC GCAGTGACTG 120
 44 CTATCACCCT TGGCGGTCTC TTGTTGAAAG GAATAATTAC TCTAGTGTCT ACTCACACAT 180
 46 CTTCAACGCT TCCAGCATTC AAAAAGATCT TGGTAGCAAA CCGCGGCGAA ATCGCGGTCC 240
 48 GTGCTTTCCG TGCAGCACTC GAAACCGGTG CAGCCACGGT AGCTATTTAC CCCCCTGAAG 300
 50 ATCGGGGATC ATTCCACCGC TCTTTTGCTT CTGAAGCTGT CCGCATTGGT ACCGAAGGCT 360
 52 CACCAAGTCAA GGCGTACCTG GACATCGATG AAATTATCGG TGCAGCTAAA AAAGTTAAAG 420
 54 CAGATGCCAT TTACCCGGGA TACGGCTTCC TGTCTGAAAA TGCCGAGCTT GCCCGCGAGT 480
 56 GTGCGGAAAA CGGCATTACT TTTATTGGCC CAACCCGAGA GGTTCCTGAT CTCACCGGTG 540
 58 ATAAGTCTCG CGCGGTAACC GCCGGAAGA AGGCTGGTCT GCCAGTTTGT GCGGAATCCA 600
 60 CCCCAGACAA AAACATCGAT GAGATCGTTA AAAGCGCTGA AGGCCAGACT TACCCCATCT 660
 62 TTGTGAAGGC AGTTGCCGGT GGTGGCGGAC GCGGTATGCG TTTTGTGCT TCACCTGATG 720

RAW SEQUENCE LISTING

DATE: 06/12/2001

PATENT APPLICATION: US/09/529,043

TIME: 12:27:43

Input Set : A:\Lestxt-1

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64	AGCTTCGCAA	ATTAGCAACA	GAAGCATCTC	GTGAAGCTGA	AGCGGCTTTC	GGCGATGGCG	780
66	CGGTATATGT	CGAACGTGCT	GTGATTAACC	CTCAGCATAT	TGAAGTGCAG	ATCCTTGGCG	840
68	ATCACACTGG	AGAAGTTGTA	CACCTTTATG	AACGTGACTG	CTCACTGCAG	CGTCGTCACC	900
70	AAAAAGTTGT	CGAAATTGCG	CCAGCACAGC	ATTTGGATCC	AGAAGTGCAG	GATCGCATTT	960
72	GTGCGGATGC	ACTAAAGTTC	TGCCGCTCCA	TTGGTTACCA	GGGCGCGGGA	ACCGTGGAAT	1020
74	TCTTGGTCGA	TGAAAAGGGC	AACCACGTCT	TCATCGAAAT	GAACCCACGT	ATCCAGGTTG	1080
76	AGCACACCGT	GACTGAAGAA	GTCACCGAGG	TGGACCTGGT	GAAGGCGCAG	ATGCGCTTGG	1140
78	CTGCTGGTGC	AACCTTGAAG	GAATTGGGTC	TGACCCAAGA	TAAGATCAAG	ACCCACGGTG	1200
80	CAGCACTGCA	GTGCCGCATC	ACCACGGAAG	ATCCAAACAA	CGGCTTCCGC	CCAGATACCG	1260
82	GAAGTATCAC	CGCGTACCGC	TCACCAGGCG	GAGCTGGCGT	TCGTCTTGAC	GGTGCAGCTC	1320
84	AGCTCGGTGG	CGAAATCACC	GCACACTTTG	ACTCCATGCT	GGTGAAAATG	ACCTGCCGTG	1380
86	GTTCCGACTT	TGAAACTGCT	GTTGCTCGTG	CACAGCGCGC	GTTGGCTGAG	TTCACCGTGT	1440
88	CTGGTGTTGC	AACCAACATT	GGTTTCTTGC	GTGCGTTGCT	GCGGGAAGAG	GACTTCACTT	1500
90	CCAAGCGCAT	CGCCACCGGA	TTCATTGCCG	ATCACCCGCA	CCTCCTTCAG	GCTCCACCTG	1560
92	CTGATGATGA	GCAGGGACGC	ATCCTGGATT	ACTTGGCAGA	TGTCACCGTG	AACAAGCCTC	1620
94	ATGGTGTCG	TCCAAAGGAT	GTTGCAGCTC	CTATCGATAA	GCTGCCTAAC	ATCAAGGATC	1680
96	TGCCACTGCC	ACGCGGTTCC	CGTGACCGCC	TGAAGCAGCT	TGGCCAGCC	GCGTTTGCTC	1740
98	GTGATCTCCG	TGAGCAGGAC	GCACTGGCAG	TTACTGATAC	CACCTTCCGC	GATGCACACC	1800
100	AGTCTTTGCT	TGCGACCCGA	GTCCGCTCAT	TCGCACTGAA	GCCTGCGGCA	GAGGCCGTGC	1860
102	CAAAGCTGAG	TCCTGAGCTT	TTGTCCGTGG	AGGCCTGGGG	CGGCGCGACC	TACGATGTGG	1920
104	CGATGCGTTT	CCTCTTTGAG	GATCCGTGGG	ACAGCTGCGA	CGAGCTGCGC	GAGGCGATGC	1980
106	CGAATGTAAA	CATTCAAGATG	CTGCTTCGCG	GCCGCAACAC	CGTGGGATAC	ACCCCGTACC	2040
108	CAGACTCCGT	CTGCCGCGCG	TTTGTTAAGG	AAGCTGCCAG	CTCCGGCGTG	GACATCTTCC	2100
110	GCATCTTCGA	CGCGCTTAAC	GACGTCTCCC	AGATGCGTCC	AGCAATCGAC	GCAGTCTTGG	2160
112	AGACCAACAC	CGCGGTAGCC	GAGGTGGCTA	TGGCTTATTC	TGGTGATCTC	TCTGATCCAA	2220
114	ATGAAAAGCT	CTACACCCTG	GATTACTACC	TAAAGATGGC	AGAGGAGATC	GTCAAGTCTG	2280
116	GCGCTCACAT	CTTGGCCATT	AAGGATATGG	CTGGTCTGCT	TCGCCCAGCT	GCGGTAACCA	2340
118	AGCTGGTCAC	CGCACTGCGC	CGTGAATTCG	ATCTGCCAGT	GCACGTGCAC	ACCCACGACA	2400
120	CTGCGGGTGG	CCAGCTGGCA	ACCTACTTTG	CTGCAGCTCA	AGCTGGTGCA	GATGCTGTTG	2460
122	ACGGTGCTTC	CGCACCCTG	TCTGGCACCA	CCTCCAGGCC	ATCCCTGTCT	GCCATTGTTG	2520
124	CTGCATTTCG	GCACACCCGT	CGCGATACCG	GTTTGAGCCT	CGAGGCTGTT	TCTGACCTCG	2580
126	AGCCGTACTG	GGAAGCAGTG	CGCGGACTGT	ACCTGCCATT	TGAGTCTGGA	ACCCACGGCC	2640
128	CAACCGGTGC	CGTCTACCGC	CACGAAATCC	CAGGCGGACA	GTTGTCCAAC	CTGCGTGCAC	2700
130	AGGCCACCGC	ACTGGGCCTT	GCGGATCGTT	TCGAACTCAT	CGAAGACAAC	TACGCAGCCG	2760
132	TTAATGAGAT	GCTGGGACGC	CCAACCAAGG	TCACCCCATC	CTCCAAGGTT	GTTGGCGACC	2820
134	TCGCACTCCA	CCTCGTTGGT	GCGGGTGTGG	ATCCAGCAGA	CTTTGCTGCC	GATCCACAAA	2880
136	AGTACGACAT	CCCAGACTCT	GTCAATCGCGT	TCCTGCGCGG	CGAGCTTGGT	AACCCCTCCAG	2940
138	GTGGCTGGCC	AGAGCCACTG	CGCACCCGCG	CACTGGAAGG	CCGCTCCGAA	GGCAAGGCAC	3000
140	CTCTGACGGA	AGTTCCGTGAG	GAAGAGCAGG	CGCACCTCGA	CGCTGATGAT	TCCAAGGAAC	3060
142	GTCGCAATAG	CCTCAACCGC	CTGCTGTTCC	CGAAGCCAAC	CGAAGAGTTC	CTCGAGCACC	3120
144	GTCGCCGCTT	CGGCAACACC	TCTGCGCTGG	ATGATCGTGA	ATTCTTCTAC	GGCCTGGTCG	3180
146	AAGGCCGCGA	GACTTTGATC	CGCCTGCCAG	ATGTGCGCAC	CCCACTGCTT	GTTGCGCTGG	3240
148	ATGCGATCTC	TGAGCCAGAC	GATAAGGGTA	TGCGCAATGT	TGTGGCCAAC	GTCAACGGCC	3300
150	AGATCCGCCC	AATGCGTGTG	CGTGACCGCT	CCGTTGAGTC	TGTCACCGCA	ACCGCAGAAA	3360
152	AGGCAGATTC	CTCCAACAAG	GGCCATGTTG	CTGCACCATT	CGCTGGTGTT	GTCACCGTGA	3420
154	CTGTTGCTGA	AGGTGATGAG	GTCAAGGCTG	GAGATGCAGT	CGCAATCATC	GAGGCTATGA	3480
156	AGATGGAAGC	AACAATCACT	GCTTCTGTTG	ACGGCAAAAT	CGATCGCGTT	GTGGTTCTCTG	3540
158	CTGCAACGAA	GGTGGAAGGT	GGCGACTTGA	TCGTGCTCGT	TTCTTAAACC	TTTCTGTAAA	3600
160	AAGCCCCGCG	TCTTCCTCAT	GGAGGAGGCG	GGGCTTTTTG	GGCCAAGATG	GGAGATGGGT	3660

RAW SEQUENCE LISTING

DATE: 06/12/2001

PATENT APPLICATION: US/09/529,043

TIME: 12:27:43

Input Set : A:\Lestxt-1

Output Set: N:\CRF3\06122001\I529043.raw

162 GAGTTGGATT TGGTCTGATT CGACACTTTT AAGGGCAGAG ATTTGAAGAT GGAGACCAAG 3720

164 GCTCAAAG 3728

E--> 166 (2) SEQ ID NO: 2:

 See page 4

(2) SEQ ID NO: 2: → (2) Information For Seq ID No: 2:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1140 Amino Acids
- (B) TYPE: Amino Acid
- (C) STRANDEDNESS: Single Strand
- (D) TOPOLOGY: linear

(ii) TYPE OF MOLECULE: Protein

(xi) SEQ ID NO: 2: → (xi) Sequence Description: Seq. ID: 2:

Met	Ser	Thr	His	Thr	Ser	Ser	Thr	Leu	Pro	Ala	Phe	Lys	Lys	Ile	Leu
1				5				10						15	

09/529,043 p.5

SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT:

(A) NAME: Forschungszentrum Juelich GmbH

(B) ADDRESS: Postfach 1913

(C) CITY: Juelich

(E) COUNTRY: GERMANY

(F) ZIP CODE: 52425

(ii) TITLE OF INVENTION: METHOD FOR MICROBIAL PRODUCTION OF AMINO ACIDS
OF THE ASPARTATE AND/OR GLUTAMATE FAMILY

(iii) NUMBER OF SEQUENCES: 2

(iv) COMPUTER-READABLE FORM:

(A) MEDIUM TYPE: Floppy disk

(B) COMPUTER: IBM PC compatible

(C) OPERATING SYSTEM: PC-DOS/MS-DOS

(D) SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPA)

Correct
U.S. format

(1) GENERAL INFORMATION:

(i) APPLICANT:

(A) NAME:

(B) ADDRESS:

(C) CITY:

(D) STATE:

(E) COUNTRY:

(F) ZIP:

(G) ZIP:

(H) ZIP:

(I) ZIP:

(J) ZIP:

(K) ZIP:

(L) ZIP:

(M) ZIP:

(N) ZIP:

(O) ZIP:

(P) ZIP:

(Q) ZIP:

(R) ZIP:

(S) ZIP:

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(AO) ZIP:

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(AV) ZIP:

(AW) ZIP:

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(BI) ZIP:

(BJ) ZIP:

(BK) ZIP:

(BL) ZIP:

(BM) ZIP:

(BN) ZIP:

(BO) ZIP:

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(CS) ZIP:

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(CY) ZIP:

(CZ) ZIP:

(DA) ZIP:

(DB) ZIP:

(DC) ZIP:

(DD) ZIP:

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(DL) ZIP:

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(IF) ZIP:

(IG) ZIP:

(IH) ZIP:

(II) ZIP:

(IJ) ZIP:

(IK) ZIP:

(IL) ZIP:

(IM) ZIP:

(IN) ZIP:

(IO) ZIP:

(IP) ZIP:

(IQ) ZIP:

(IR) ZIP:

(IS) ZIP:

(IT) ZIP:

(IU) ZIP:

(IV) ZIP:

(IW) ZIP:

(IX) ZIP:

(IY) ZIP:

(IZ) ZIP:

(JA) ZIP:

(JB) ZIP:

(JC) ZIP:

(JD) ZIP:

(JE) ZIP:

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(JK) ZIP:

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(JM) ZIP:

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(JO) ZIP:

(JP) ZIP:

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(JR) ZIP:

(JS) ZIP:

(JT) ZIP:

(JU) ZIP:

VERIFICATION SUMMARY

DATE: 06/12/2001

PATENT APPLICATION: US/09/529,043

TIME: 12:27:44

Input Set : A:\Lestxt-1

Output Set: N:\CRF3\06122001\I529043.raw

L:11 M:220 C: Keyword misspelled or invalid format, [(F) ZIP:]
L:18 M:220 C: Keyword misspelled or invalid format, [(v) COMPUTER READABLE FORM:]
L:6 M:200 E: Mandatory Header Field missing, [(i) APPLICANT:] of (1) Value not provided
L:0 M:200 E: Mandatory Header Field missing, [(A) ADDRESSEE:] of (1)(iv)
L:0 M:200 E: Mandatory Header Field missing, [(B) STREET:] of (1)(iv)
L:0 M:248 E: Inserted missing Mandatory Header Field, [(iv) CORRESPONDENCE ADDRESS:]
L:0 M:247 C: Inserted Optional Header Field, [(viii) ATTORNEY/AGENT INFORMATION:]
L:0 M:249 C: Inserted Mandatory Field, [(vi) CURRENT APPLICATION DATA:]
L:0 M:249 C: Inserted Mandatory Field, [(A) APPLICATION NUMBER:]
L:0 M:249 C: Inserted Mandatory Field, [(B) FILING DATE:]
L:25 M:243 E: Alpha Header Field expected, Data=[(2) SEQ ID NO: .1:], Sequence Header Line Not Processed!
L:27 M:201 W: Mandatory field data missing, SeqNo=1, [INFORMATION FOR SEQ ID NO:]
L:27 M:202 E: (16) Value must be an Integer, Data=[]
L:29 M:220 C: Keyword misspelled or invalid format, [(B) TYPE:]
L:30 M:220 C: Keyword misspelled or invalid format, [(C) STRANDEDNESS:]
L:33 M:220 C: Keyword misspelled or invalid format, [(ii) MOLECULE TYPE:]
L:38 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]
L:0 M:200 E: Mandatory Header Field missing, SeqNo=-1, SEQUENCE DESCRIPTION: SEQ ID NO: of (2)
L:38 M:202 E: (16) Value must be an Integer, Data=[]
L:166 M:254 E: No. of Bases conflict, Input:0 Counted:3731 SEQ:-1
L:166 M:320 E: (1) Wrong Nucleic Acid Designator, 10
L:166 M:204 E: No. of Bases differ, LENGTH:Input:3728 Counted:3739 SEQ:-1
L:16 M:203 E: No. of Seq. differs, : Input 2, Counted 1